

# PA-Score

## PA SCORESHEETS

Site Name: LANCIA OIL COMPANY, inc.  
CERCLIS ID No.: NJD002550366  
Street Address: 340 SOUTH RIVER STREET  
City/State/Zip: HACKENSACK , NJ 07601

Investigator: ANDREW CYR  
Agency/Organization: NJDEPE/DPFSR/SITE ASSESSMENT  
Street Address: 300 HORIZON CENTER  
City/State: ROBBINSVILLE, NJ

Date: 4/22/94

235245



PA-Score 2.1 Scoresheets  
LANCIA OIL COMPANY, INC. - 05/11/94

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OMB Approval Number: 2050-0095  
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS  WASTE SITE  PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD002550366
	CERCLIS Discovery Date:	

1. General Site Information

Name: LANCIA OIL COMPANY, INC.		Street Address: 340 SOUTH RIVER STREET			
City: HACKENSACK	State: NJ	Zip Code: 07601	County: BERGEN	Co. Code: 02	Cong. Dist: 09
Latitude:      Longitude: 40° 52' 3.0"    74° 2' 14.0"		Approx. Area of Site: 1 acres		Status of Site: Active	

2. Owner/Operator Information

Owner: LANCIA OIL COMPANY, INC.			Operator: LANCIA OIL COMPANY, INC.		
Street Address: 340 SOUTH RIVER STREET			Street Address: 340 SOUTH RIVER STREET		
City: HACKENSACK			City: HACKENSACK		
State: NJ	Zip Code: 07601	Telephone: (201) 342-5454	State: NJ	Zip Code: 07601	Telephone: (201) 342-5454
Type of Ownership: Private			How Initially Identified: State/Local Program		

POTENTIAL HAZARDOUS  WASTE SITE  PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD002550366
	CERCLIS Discovery Date:	

3. Site Evaluator Information

Name of Evaluator: ANDREW CYR	Agency/Organization: NJDEPE/DPFSR/SITE ASSESSMEN	Date Prepared: 4/22/94
Street Address: 300 HORIZON CENTER	City: ROBBINSVILLE	State: NJ
Name of EPA or State Agency Contact: KENNETH KLOO	Telephone: (609) 584-4280	
Street Address: 300 HORIZON CENTER	City: ROBBINSVILLE	State: NJ

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation: No  Date: 4/22/94	CERCLIS Recommendation: NFRAP  Date: 4/22/94	Signature:  Name: ANDREW CYR Position: HSMS III
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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State:  
NJ

CERCLIS Number:  
NJD002550366

CERCLIS Discovery Date:

5. General Site Characteristics

Predominant Land Uses Within  
1 Mile of Site:  
Industrial  
Commercial  
Residential

Site Setting:  
Urban

Years of Operation:  
Beginning Year: 1968  
Ending Year: 1994

Type of Site Operations:  
Other:  
BULK FUEL OIL STORAGE AND TRANSPORT

Waste Generated:  
Onsite

Waste Deposition Authorized  
By: Present Owner

Waste Accessible to the Public  
Yes

Distance to Nearest Dwelling,  
School, or Workplace:  
900 Feet

6. Waste Characteristics Information

No Sources

General Types of Waste:  
Oily Waste

Physical State of Waste as Deposited  
Solid  
Liquid

POTENTIAL HAZARDOUS  WASTE SITE  PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD002550366
	CERCLIS Discovery Date:	

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: Yes	List Secondary Target Population Served by Ground Water Withdrawn From:  0 - 1/4 Mile 0 >1/4 - 1/2 Mile 4220 >1/2 - 1 Mile 8455 >1 - 2 Miles 10 >2 - 3 Miles 8445 >3 - 4 Miles 4230 Total 25360
Type of Ground Water Wells Within 4 Miles: Municipal	Have Primary Target Drinking Water Wells Been Identified: No	
Depth to Shallowest Aquifer: 85 Feet	Nearest Designated Wellhead Protection Area: None within 4 Miles	
Karst Terrain/Aquifer Present: No		

POTENTIAL HAZARDOUS  WASTE SITE  PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD002550366
	CERCLIS Discovery Date:	

8. Surface Water Pathway

Part 1 of 4

Type of Surface Water Draining  
Site and 15 Miles Downstream:  
River  
Bay

Shortest Overland Distance From Any  
Source to Surface Water:

20 Feet  
0.0 Miles

Is there a Suspected Release to  
Surface Water: Yes

Site is Located in:  
>10 yr - 100 yr floodplain

8. Surface Water Pathway

Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: No

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:  
None

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State:  
NJ

CERCLIS Number:  
NJD002550366

CERCLIS Discovery Date:

8. Surface Water Pathway

Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
HACKENSACK RIVER	large stream/river/ >1000-10000
NEWARK BAY	Coastal,ocean,Gr.Lakes

8. Surface Water Pathway

Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

Water Body/Flow(cfs)	Frontage(mi)
Coastal,ocean,Gr.Lakes	0.1 to 1

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

Water Body/Flow(cfs)	Sensitive Environment Type
large stream/river/ >1000-10000	Habitat for State designated end/thr spec

POTENTIAL HAZARDOUS  WASTE SITE  PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
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	CERCLIS Discovery Date:	

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: No

Number of Workers Onsite: 1 - 100

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:		Is There a Suspected Release to Air: No
Onsite	2	
0 - 1/4 Mile	2996	Wetlands Located Within 4 Miles of the Site: Yes
>1/4 - 1/2 Mile	4585	
>1/2 - 1 Mile	15261	Other Sensitive Environments Located Within 4 Miles of the Site: No
>1 - 2 Miles	53572	
>2 - 3 Miles	98135	
>3 - 4 Miles	137873	
Total	312424	

Sensitive Environments Within 1/2 Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area(acres)
Onsite	Wetlands (1 to 50 acres)
0 - 1/4	Wetlands (1 to 50 acres)
>1/4 - 1/2	Wetlands (1 to 50 acres)



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WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

NO SOURCES IDENTIFIED AS SITE ONLY CONTAINS PETROLEUM  
PRODUCTS AND IS THEREFORE EXEMPT UNDER CERCLA.

\*\* Only First WC Page Is Printed \*\*

Waste Characteristics Score: WC = 0

Ground Water Pathway Criteria List  
 Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	Y
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

REVIEW OF AERIAL PHOTOGRAPHS SUGGESTS THAT THE SITE MAY NOT HAVE BEEN PAVED PRIOR TO AT LEAST 1974. SPILLS OF PRODUCT HAVE BEEN DOCUMENTATED.

Ground Water Pathway Criteria List  
 Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	U
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	U
Does any nearby well have a large drawdown/high production rate? (y/n/u)	U
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	U
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	U
Does any drinking water well warrant sampling? (y/n/u)	N

Other criteria? (y/n) N

PRIMARY TARGET(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Targets:

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)	Yes		
Is the site located in karst terrain? (y/n)	No		
Depth to aquifer (feet):	85		
Distance to the nearest drinking water well (feet):	2000		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =		550	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) Y	601	0	
5. NEAREST WELL	18	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =		624	0

WASTE CHARACTERISTICS

WC =

0	0
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GROUND WATER PATHWAY SCORE:

0
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**Ground Water Target Populations**

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wells Are Printed ***				Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	4220		323
Greater than 1/2 to 1 mile	8455		167
Greater than 1 to 2 miles	10		1
Greater than 2 to 3 miles	8445		68
Greater than 3 to 4 miles	4230		42
Total			601

Apportionment Documentation for a Blended System

WELLS WITHIN 4,0 MILES OF SITE

0-1/4 MILE = NONE

1/4-1/2 MILE 1 WELL HACKENSACK WATER CO. 4220 PEOPLE/WELL = 4220

1/2-1 MILE 2 WELLS HACKENSACK WATER CO. 4220 PEOPLE/WELL = 4220 X 2  
= 8440 + APPROX. 6 PRIVATE WELLS 6 X 2.54 = 15 = 8455

1-2 MILE APPROX. 4 PRIVATE WELLS 4 X 2.54 = 10

2-3 MILE 2 WELLS HACKENSACK WATER CO. 2 X 4220 = 8440 + APPROX. 2  
PRIVATE WELLS = 2 X 2.54 = 5 + 8440 = 8445

3-4 MILE 1 WELL HACKENSACK WATER CO. = 4220 + 4 PRIVATE WELLS  
4 X 2.54 = 10 + 4220 = 4230

Surface Water Pathway Criteria List  
 Suspected Release

Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	U
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	U
Is vegetation stressed along the probable runoff path? (y/n/u)	U
Are sediments or water unnaturally discolored? (y/n/u)	U
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	Y
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

ON MAY 29, 1989 OIL CONTAMINATED RUNOFF WAS OBSERVED ENTERING THE  
 HACKENSACK RIVER.



Surface Water Pathway Criteria List  
Primary Targets

Is any target nearby? (y/n/u)	If yes:	Y
N Drinking water intake		
Y Fishery		
Y Sensitive environment		
Has any intake, fishery, or recreational area been closed? (y/n/u)		N
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)		Y
Does any target warrant sampling? (y/n/u)	If yes:	N
N Drinking water intake		
N Fishery		
N Sensitive environment		

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -----

continued -----

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

PETROLEUM EXCLUSION

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

PETROLEUM EXCLUSION

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	
Distance to surface water (feet):	20	
Flood frequency (years):	100	
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	N.A.	
b. the nearest fishery?	0.1	
c. the nearest sensitive environment?	0.1	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	5	0	

Drinking Water Threat Target Populations

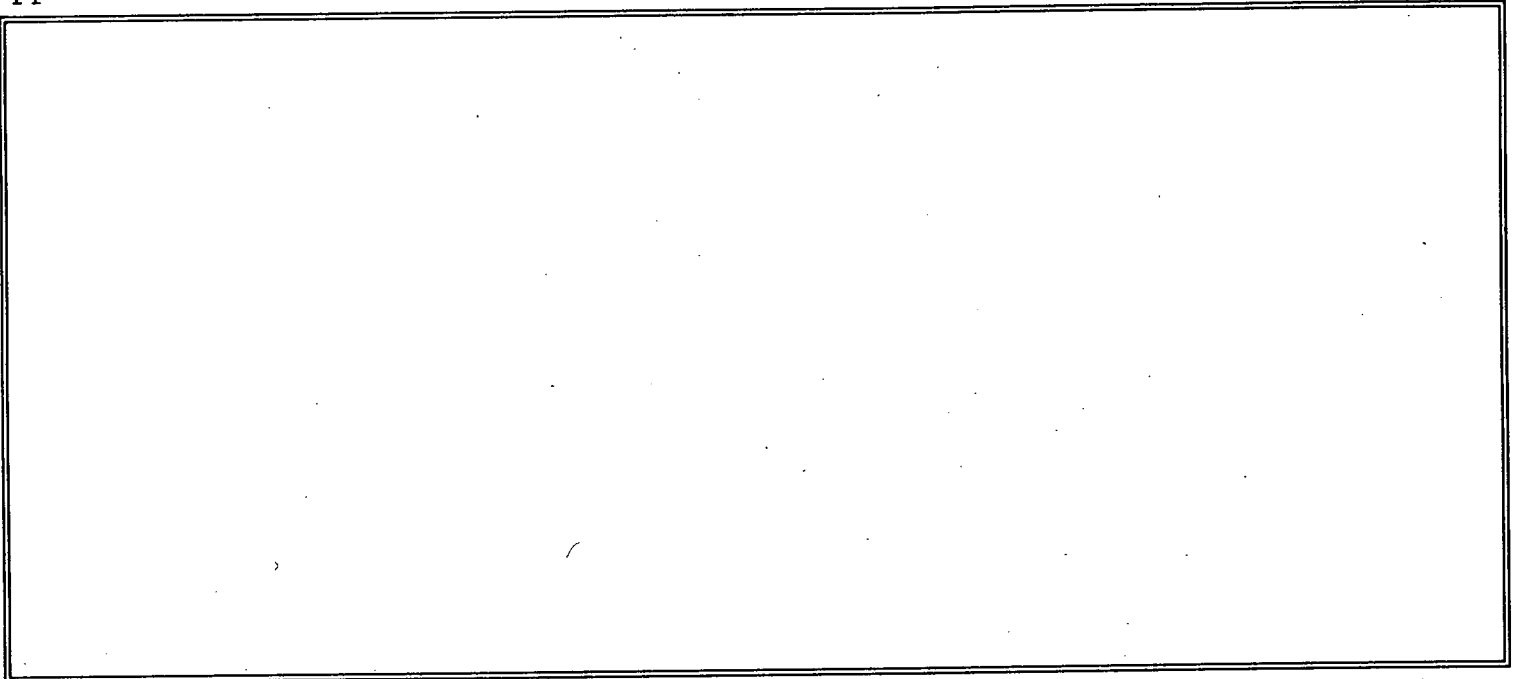
Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					
Total Primary Target Population Value					0
Total Secondary Target Population Value					0

\*\*\* Note : Maximum of 6 Intakes Are Printed \*\*\*

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**Apportionment Documentation for a Blended System**



Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	210	0	
T =	210	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 HACKENSACK RIVER	N	>1000-10000 cfs		12
2 NEWARK BAY	N	Coastal, ocean, Gr. Lake		12
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				210

\*\*\* Note : Maximum of 6 Fisheries Are Printed \*\*\*

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	10	0	
T =	10	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 HACKENSACK RIVER	N	>1000-10000 cfs		0
2 NEWARK BAY	N	Coastal, ocean, Gr. Lake		0
None				
Total Primary Sensitive Environments Value				0
Total Secondary Sensitive Environments Value				10

\*\*\* Note: Maximum of 6 Sensitive Environments Are Printed \*\*\*

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	5	0	0
Human Food Chain	550	210	0	0
Environmental	550	10	0	0

SURFACE WATER PATHWAY SCORE:

0



Soil Exposure Pathway Criteria List  
Resident Population

- |  |   |
|--|---|
| Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)   | N |
| Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)                      | N |
| Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)                                 | Y |
| Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u) | U |
| Does any neighboring property warrant sampling? (y/n/u)  | N |

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

	Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n) No	
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n) No	
Is the facility active? (y/n): Yes	

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS 1 - 100	5	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	10	

WASTE CHARACTERISTICS

WC =

RESIDENT POPULATION THREAT SCORE:

NEARBY POPULATION THREAT SCORE:

Population Within 1 Mile: 10,001 - 50,000

SOIL EXPOSURE PATHWAY SCORE:

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		
*** Note : Maximum of 7 Sensitive Environments Are Printed ***		

Air Pathway Criteria List  
Suspected Release

Are odors currently reported? (y/n/u) U

Has release of a hazardous substance to the air  
been directly observed? (y/n/u) N

Are there reports of adverse health effects (e.g., headaches,  
nausea, dizziness) potentially resulting from migration  
of hazardous substances through the air? (y/n/u) N

Does analytical/circumstantial evidence suggest release to air? (y/n/u) N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics

Do you suspect a release? (y/n)			No	Ref.
Distance to the nearest individual (feet):			900	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References	
1. SUSPECTED RELEASE	0			
2. NO SUSPECTED RELEASE		500		
LR =		0      500		

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	158	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	3	
8. RESOURCES	0	5	
T =	0	186	

WASTE CHARACTERISTICS

WC =

0	0
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AIR PATHWAY SCORE:

0
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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	2		1
Greater than 0 to 1/4 mile	2996		41
Greater than 1/4 to 1/2 mile	4585		28
Greater than 1/2 to 1 mile	15261		26
Greater than 1 to 2 miles	53572		27
Greater than 2 to 3 miles	98135		12
Greater than 3 to 4 miles	137873		23
Total Secondary Population Value			158

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

\*\*\* Note : Maximum of 7 Sensitive Environments Are Printed\*\*\*

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 WETLANDS	onsite		2.5
2 WETLANDS	0 - 1/4		0.6
3 WETLANDS	>1/4-1/2		0.1
Total Secondary Sensitive Environments Value			3

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	0
SURFACE WATER PATHWAY SCORE:	0
SOIL EXPOSURE PATHWAY SCORE:	2
AIR PATHWAY SCORE:	0
SITE SCORE:	1



SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?

A. Drinking water intake

No

B. Fishery

Yes

C. Sensitive environment (wetland, critical habitat, others)

No

If yes, identity the target(s).

SITE IS ADJACENT TO THE HACKENSACK RIVER.

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

REFERENCE LIST